

# RTI Connex Third-Party Software

Version 7.3.0



Your systems.  
Working as one.

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# Contents

<b>1</b>	<b>Third-Party Software included in Connex DDS Core and/or Connex DDS Micro Libraries</b>	<b>2</b>
1.1	Apache Log4j 2 . . . . .	2
1.2	crc32c.c . . . . .	2
1.3	Expat . . . . .	3
1.4	fnmatch . . . . .	4
1.5	inet_pton4, inet_pton6 . . . . .	5
1.6	List.cs file from .NET Core 3.1 . . . . .	5
1.7	LZ4 . . . . .	5
1.8	ZLIB . . . . .	6
1.9	BZIP2 . . . . .	7
1.10	MiGBase64 . . . . .	8
1.11	MD5 . . . . .	9
1.12	utf8proc . . . . .	10
1.13	json-parser . . . . .	11
1.14	pybind11 . . . . .	12
1.15	y2038 . . . . .	12
<b>2</b>	<b>RTI Plugins</b>	<b>14</b>
2.1	bzip2 . . . . .	14
2.2	ZLIB . . . . .	15
<b>3</b>	<b>RTI Services &amp; Utilities</b>	<b>17</b>
3.1	Bootstrap . . . . .	17
3.2	CivetWeb . . . . .	18
3.3	jQuery . . . . .	19
3.4	json-parser . . . . .	20
3.5	Libxml2 . . . . .	20
3.6	Libxslt . . . . .	21
3.7	nlohmann-json . . . . .	22
3.8	OpenSSL . . . . .	23
3.9	OpenTelemetry C++ . . . . .	23
3.10	prometheus-cpp . . . . .	27
3.11	RapidXML . . . . .	28
3.12	SQLite . . . . .	29
3.13	SQLite ODBC . . . . .	30
<b>4</b>	<b>RTI Tools</b>	<b>32</b>

---

4.1	Nebula Visualization Widgets	32
4.2	Nebula Visualization XY Graph	32
4.3	JEP	33
4.4	Bootstrap	33
4.5	Node.js	33
4.6	adm-zip	34
4.7	body-parser	35
4.8	CodeMirror	35
4.9	common-prefix	36
4.10	express	37
4.11	express-fileupload	37
4.12	express-session	38
4.13	fs-extra	39
4.14	mkdirp	39
4.15	open	40
4.16	sanitize-filename	41
4.17	sax	42
4.18	session-file-store	43
4.19	sprintf-js	43
4.20	Material Design Icons	44
4.21	AdoptOpenJDK JRE	44
4.22	Apache Commons Lang	53
4.23	Apache Commons Exec	53
4.24	Apache Commons IO	53
4.25	Apache Log4J 2	53
4.26	JDom	53
4.27	Eclipse	55
4.28	E(fx)clipse	55
4.29	SWT	55
4.30	FlatLaf	55
4.31	Glazed Lists	55
4.32	JavaFX	56
4.33	JFreeChart	64
4.34	SwingX	64
4.35	Webix-pro	64
4.36	OpenSSL	65
4.37	wxWidgets	65
4.38	XStream	66
4.39	yWorks: yFiles for Java	67
4.40	Jackson	68
4.41	Picocli	68
4.42	Gson	68
<b>5</b>	<b>Third-Party Software used by the RTIDDSGEN Code-Generation Utility</b>	<b>69</b>
5.1	ANTLR	69
5.2	Apache Commons Lang	70
5.3	Apache Log4j 2	70
5.4	Apache Velocity	70

---

5.5	AdoptOpenJDK JRE . . . . .	70
5.6	Gson . . . . .	79
<b>6</b>	<b>Third-Party Software Used by RTI Connector</b>	<b>80</b>
6.1	Lua . . . . .	80
6.2	json-parser . . . . .	81
<b>7</b>	<b>Third-Party Software Used by RTI ConnexT TSS</b>	<b>82</b>
7.1	utHash . . . . .	82
<b>8</b>	<b>Third-Party Software Generators Whose Output Is Included in ConnexT DDS Core Libraries and Services</b>	<b>83</b>
8.1	Bison . . . . .	83
8.2	Flex . . . . .	84
8.3	JavaCC . . . . .	85
<b>9</b>	<b>Third-Party Software Generators Whose Output is not Included in ConnexT DDS Core Libraries, but Is Shipped with ConnexT Software Bundle</b>	<b>86</b>
9.1	Doxygen . . . . .	86
9.2	Sphinx . . . . .	87
9.3	MadCap Flare . . . . .	91
9.4	Texlive . . . . .	91
<b>10</b>	<b>Installer</b>	<b>93</b>
10.1	Bitrock InstallBuilder . . . . .	93
<b>11</b>	<b>Third-Party Software Used by RTI Usage Metrics</b>	<b>94</b>
11.1	Apache Commons CLI . . . . .	94
11.2	Apache Log4j API and Core . . . . .	94
11.3	Gson . . . . .	95
<b>12</b>	<b>Appendix – Open Source Software Licenses</b>	<b>96</b>
12.1	Apache License version 2.0, January 2004 ( <a href="http://www.apache.org/licenses/">http://www.apache.org/licenses/</a> ) . . . . .	96
12.2	Common Public License - v 1.0 . . . . .	100
12.3	GNU GENERAL PUBLIC LICENSE Version 2, June 1991 . . . . .	104
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12.7	Eclipse Public License - v 2.0 . . . . .	122

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Updated versions of this document and other RTI documentation may be found at [community.rti.com/documentation](https://community.rti.com/documentation).

You can also find the full Software Bill of Materials (SBOM) third-party information in [SPDX](#) and [CycloneDX](#) formats in the `<installation_dir>/sbom` folder. The SBOM includes all dependencies, not just first-level ones.

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# 1

## Third-Party Software included in Connex DDS Core and/or Connex DDS Micro Libraries

### 1.1 Apache Log4j 2

- This software is used for Distributed Logger and Micro Application Generator.
- Source: <https://www.apache.org/licenses/LICENSE-2.0>
- Version: 2.17.1
- License: The Apache Software License, Version 2.0  
See Appendix

### 1.2 crc32c.c

- Related to: Connex Micro 3.1 and 2.4.14 and Connex Micro Cert 2.4.12.1
- Version 1.1
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Mark Adler

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## 1.3 Expat

- Related to: XML configuration
- Software is included in the core middleware libraries and in the Integration Toolkit for AUTOSAR.
- Core middleware libraries include the release 2.4.8 and the Integration Toolkit for AUTOSAR includes the release 2.6.1.
- <https://github.com/libexpat/libexpat>
- License

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## 1.4 fnmatch

- Related to: Content-filtered topics, query conditions, partitions, multicast address management, topic filter in XML QoS profile.
- Software is included in the core middleware libraries.
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## 1.5 inet\_pton4, inet\_pton6

- Related to: network addressing
- Software is included in the core middleware libraries.
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## 1.6 List.cs file from .NET Core 3.1

- Related to:  
This is a source file taken from the .NET open source repository and adapted to be compiled into RTI core middleware libraries.
- <https://github.com/dotnet/runtime/blob/8593a477fb8f41029f9d7963658922b8d504c76e/src/libraries/System.Private.CoreLib/src/System/Collections/Generic/List.cs>
- License

The MIT License. See Appendix

## 1.7 LZ4

- Related to: Compression feature added in Connex 6.1.0 . LZ4 is a library for compression and will be part of our Connex DDS Professional, so any other product that contains our libraries would also contain the LZ4 libraries.
- Software is included in the core middleware libraries.
- Release 1.9.3
- <https://github.com/lz4/lz4>
- License:

#### LZ4 Library

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## 1.8 ZLIB

- Related to: Compression feature added in Connex 6.1.0, and TypeObject compression
- Software is included in the core middleware libraries.
- Release 1.2.12
- <http://zlib.net/>
- License: [http://zlib.net/zlib\\_license.html](http://zlib.net/zlib_license.html)

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Mark Adler  
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## 1.9 BZIP2

- Related to: Compression feature added in Connex 6.1.0, and TypeObject compression
- Software is included in the core middleware libraries.
- Release 1.0.8
- [https://sourceware.org/git/?p=bzip2.git;a=blob\\_plain;f=LICENSE;h=81a37eab7a5be1a34456f38adb74928cc9073e9b;hb=6a8690fc8d26c815e798c588f796eabe9d684cf0](https://sourceware.org/git/?p=bzip2.git;a=blob_plain;f=LICENSE;h=81a37eab7a5be1a34456f38adb74928cc9073e9b;hb=6a8690fc8d26c815e798c588f796eabe9d684cf0)
- License

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Julian Seward, jseward@acm.org  
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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## 1.10 MiGBase64

- Related to: RTI Connext Java support for mechanism for loading certificates from a keystore, and not just a file for the TLS transport
- Software is included in core middleware libraries version 5.2 and higher.
- License:

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@version 2.2

@author Mikael Grev

Date: 2004-aug-02

Time: 11:31:11

## 1.11 MD5

- Related to: DDS keys implementation, content-filtered topics (to sign the filter), persistence service (to generate writer-side unique identification), Integration Toolkit for AUTOSAR (DDS-IDL Service Interface code generation)
- Software is included in core DDS middleware libraries, in the Connex DDS Micro libraries, in the Connex DDS Cert libraries and in the Integration Toolkit for AUTOSAR.
- License

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L. Peter Deutsch  
ghost@aladdin.com

## 1.12 utf8proc

- Related to: Content-filtered topics, query conditions, and multichannel.
- <https://github.com/JuliaStrings/utf8proc>
- Software is included in core DDS middleware libraries
- License: MIT license. See Appendix.

Copyright © 2014–2019 by Steven G. Johnson, Jiahao Chen, Tony Kelman, Jonas Fonseca, and other contributors listed in the git history.

<https://github.com/JuliaStrings/utf8proc/blob/master/LICENSE.md>

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## 1.13 json-parser

- Related to: DynamicData and Real-Time WAN Transport Configuration in Core Libraries. Connector also uses the API exposed by the Core Libraries.
- Version 1.1.0
- <https://github.com/json-parser/json-parser/blob/master/LICENSE>
- Software is included in core DDS middleware libraries
- License:

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## 1.14 pybind11

- Related to: RTI Connext DDS Python API
- Version 2.10.1
- <https://pybind11.readthedocs.io/en/stable/#license>

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## 1.15 y2038

- Related to: UNIX Timestamps
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- <https://raw.githubusercontent.com/evalEmpire/y2038/v20100403/LICENSE>

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```

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## 2

# RTI Plugins

RTI offers a number of plug-in technologies that augment the functionality of the RTI Connex DDS Core Libraries. Plugins are typically provided in binary format and linked directly into the customer application along with the RTI Connex DDS Core Libraries. These plugins are typically distributed as part of the customer's application. See the Third-party Software – Core & Micro documentation for information regarding third-party software content included as part of the Core package.

### 2.1 bzip2

- Version 1.0.8
- Used, unmodified, in Compression Real-Time Publish Subscribe Transport Plug-in (part of RTI Limited Bandwidth Plug-ins).
- [https://sourceware.org/git/?p=bzip2.git;a=blob\\_plain;f=LICENSE;h=81a37eab7a5be1a34456f38adb74928cc9073e9b;hb=6a8690fc8d26c815e798c588f796eabe9d684cf0](https://sourceware.org/git/?p=bzip2.git;a=blob_plain;f=LICENSE;h=81a37eab7a5be1a34456f38adb74928cc9073e9b;hb=6a8690fc8d26c815e798c588f796eabe9d684cf0)
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Julian Seward, jseward@acm.org  
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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- Version 1.3
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Mark Adler  
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# 3

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- Version 5.1.3
- Used with RTI Web Integration Service
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- Version 1.16
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- Version 3.6.0
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### 3.4 json-parser

- Version 1.1.0
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- <https://github.com/json-parser/json-parser/blob/master/LICENSE>
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### 3.5 Libxml2

- Libxml2 v2.11.4
- Used with RTI Cloud Discovery Service, RTI Observability Collector Service, RTI Queuing Service, RTI Recording Service, and RTI Routing Service for parsing XML files.
- <https://gitlab.gnome.org/GNOME/libxml2/-/blob/v2.11.4/Copyright>
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## 3.6 Libxslt

- Libxslt v1.1.38
- Used with RTI Cloud Discovery Service, RTI Observability Collector Service, RTI Queuing Service, RTI Recording Service, and RTI Routing Service for transforming XML files.
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- Version 3.11.2
- Used with RTI Observability Collector Service
- <https://github.com/nlohmann/json/blob/develop/LICENSE.MIT>

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### 3.8 OpenSSL

- Version 3.0.12
- Web Integration Service and Observability Collector Service use OpenSSL to secure the connection between client applications and the embedded web server when HTTPS is enabled.
- <https://raw.githubusercontent.com/openssl/openssl/openssl-3.0.12/LICENSE.txt>
- License: Apache License Version 2.0 (full text found in the **Appendix**).

### 3.9 OpenTelemetry C++

- Version 1.13.0
- Used in RTI Observability Collector Service to export in OTLP.
- <https://github.com/open-telemetry/opentelemetry-cpp/blob/v1.13.0/LICENSE>
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### 3.10 prometheus-cpp

- Version 1.0.1
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### 3.11 RapidXML

- Version 1.13
- Used with RTI Web Integration Service
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## 3.12 SQLite

- Version 3.39.4
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- <http://www.sqlite.org/copyright.html>
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### 3.13 SQLite ODBC

- Version 0.9998
- RTI compiles the source code of SQLite ODBC into a library that infrastructure services like RTI Persistence Service and RTI Queuing Service link against.
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# 4

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## 4.4 Bootstrap

- Version 4.0.0
- Used in Admin Console.
- License: MIT (full text found in the **Appendix**).

## 4.5 Node.js

- Version 20.10.0
- Used in System Designer
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## 4.6 adm-zip

- Version 0.5.9
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- <https://github.com/cthackers/adm-zip/blob/master/LICENSE>

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## 4.7 body-parser

- Version 1.20.1
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## 4.8 CodeMirror

- Version 5.65.0
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## 4.9 common-prefix

- Version 1.1
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## 4.10 express

- Version 4.18.2
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## 4.11 express-fileupload

- Version 1.4.0
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## 4.12 express-session

- Version 1.17.2
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- Version 10.0.0
- Used in System Designer
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- Version 1.0.4
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## 4.16 sanitize-filename

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## 4.19 sprintf-js

- Version 1.1.2
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- Version 9.1.4
- License: RTI is authorized to distribute Webix under a commercial license, available at <https://webix.com/legalnote/developer-license-agreement/>

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## 4.36 OpenSSL

- Version 3.0.12
- RTI Shapes Demo is built using OpenSSL.
- License: <https://raw.githubusercontent.com/openssl/openssl/openssl-3.0.12/LICENSE.txt> (full text found in the **Appendix**).

## 4.37 wxWidgets

- Portions of RTI Shapes Demo are built using wxWidgets.
- Version 3.0.4
- <https://www.wxwidgets.org/about/licence/>
- License

### Background

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Participants in the discussion that led to this decision include the folk from Abisource, Robert Roebling, Julian Smart, Markus Fleck, Karsten Ballueder, and some advice from Richard Stallman. Richard has confirmed that the new licence is compatible with GPL’ed applications. However, there are no significant restrictions on proprietary applications.

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## 4.39 yWorks: yFiles for Java

- Version 3.5.0.0
- Portions of RTI Admin Console are built using Yfiles. This software is licensed under commercial terms to RTI. It does not contain any third-party open source software.

## 4.40 Jackson

- Version 2.15.0
- Portions of RTI Admin Console are built using Jackson core, Jackson databind-jdk8, and Jackson dataformat-xml.
- License: License for the three components of Jackson being used is Apache License Version 2.0 (full text found in the **Appendix**).

## 4.41 Picocli

- Version 4.7.3
- Portions of RTI Admin Console are built using Picocli.
- License: Apache License Version 2.0 (full text found in the **Appendix**).

## 4.42 Gson

- Version 2.9.1
- Portions of RTI Admin Console and RTI Launcher are built using Gson.
- License: [The Apache Software License, Version 2.0](#) (full text found in the *Appendix*)



---

# 5

## Third-Party Software used by the RTIDDSGEN Code-Generation Utility

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## 5.2 Apache Commons Lang

- Used on Code Generator. We only use the class StringUtils.
- Version 2.6
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## 5.3 Apache Log4j 2

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- Version: 2.17.1

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- Source: <http://velocity.apache.org/>
- Version: 2.3
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- Version 17.0.6 (LTS) Hotspot JVM
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- <https://adoptopenjdk.net/about.html>
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# 7

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- Version 1.9.8
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```

---

# 8

## Third-Party Software Generators Whose Output Is Included in Connex DDS Core Libraries and Services

### 8.1 Bison

- Bison is a GNU parser generator. RTI uses the code generated by Bison. The software is not included in the RTI libraries or distribution.
- Related to: Content-filtered topics feature in C.
- Version 3.7.6
- License:

```
/* A Bison parser, made by GNU Bison 3.7.6. */
```

```
/* Bison interface for Yacc-like parsers in C
```

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```
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*/
```

```
/* As a special exception, you may create a larger work that
contains
part or all of the Bison parser skeleton and distribute that work
under terms of your choice, so long as that work isn't itself a
parser generator using the skeleton or a modified version thereof
as a parser skeleton. Alternatively, if you modify or redistribute
the parser skeleton itself, you may (at your option) remove this
special exception, which will cause the skeleton and the resulting
Bison output files to be licensed under the GNU General Public
License without this special exception.

This special exception was added by the Free Software Foundation in
version 2.2 of Bison. */
```

## 8.2 Flex

- Related to: Content-filtered topics feature in C.
- Used to generate code that is included in the core middleware libraries. Flex itself is not included in the RTI distribution.
- Version: 2.6.4
- License

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## 8.3 JavaCC

- Related to: Content-filtered topics feature in Java.
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# 9

## **Third-Party Software Generators Whose Output is not Included in Connex DDS Core Libraries, but Is Shipped with Connex Software Bundle**

### **9.1 Doxygen**

- Related to: RTI uses Doxygen to generate documentation for RTI Connex DDS. The software is not included in the RTI libraries or distribution.
- Version: 1.9.3
- License: GNU GENERAL PUBLIC LICENSE Version 2, June 1991

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## 9.2 Sphinx

- Related to: RTI uses Sphinx to generate documentation for RTI Connext DDS. The software is not included in the RTI libraries or distribution.
- Version: 5.3.0

```
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```

```
=====
```

```
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```

```
-----  
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---

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↪-

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↪-

## 9.3 MadCap Flare

- Related to: RTI uses Flare to generate documentation for RTI Connexx DDS. The software is not included in the RTI libraries or distribution.
- Version: 2021
- <https://www.madcapsoftware.com/>

## 9.4 Texlive

- Related to: RTI uses the Texlive Tex system to generate RTI Connexx documentation. The software is not included in the RTI Libraries or distribution.
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# 10

## Installer

The installers consist of binary executables shipped by RTI that are used to install and to update the RTI Software package on the user's computer.

### 10.1 Bitrock InstallBuilder

The installers for RTI modules were built using Bitrock Installbuilder 23.10.1. This software is licensed under commercial terms to RTI, and the executable may contain third-party open source software. Contact RTI for a listing specific to this product if review is required.

---

# 11

## Third-Party Software Used by RTI Usage Metrics

The following dependencies are used by RTI Usage Metrics, which is called after most of the products' scripts have finished their execution.

### 11.1 Apache Commons CLI

- Version 1.5.0
- Portions of the RTI Core Utilities (DDS Ping, DDS Spy, and Prototyper), the installers, the RTI Services and Utilities, RTI Monitor, RTI System Designer, and RTI Shapes Demo use Apache Commons CLI.
- License: [The Apache Software License, Version 2.0](#) (full text found in the *Appendix*)

### 11.2 Apache Log4j API and Core

- Version 2.17.1
- Portions of the RTI Core Utilities (DDS Ping, DDS Spy, and Prototyper), the installers, the RTI Services and Utilities, RTI Monitor, RTI System Designer, and RTI Shapes Demo use Apache Log4j API and Log4j Core.
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## 11.3 Gson

- Version 2.9.1
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---

# 12

## Appendix – Open Source Software Licenses

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